

Abstract

A materials handling device includes a chassis, handle shaft pivotally mounted to the chassis for maneuvering the device, two rollers rotationally mounted to the chassis, battery pack supported on the handle shaft, electric motor and gearbox fitted in one roller in-line with a rotational axis thereof, and a controller supported on the chassis and having capacitors charged by the battery pack so as to have available when needed a store of electrical power. The controller is electrically connected between the battery pack and electric motor such that the store of electrical power can be supplied to the electric motor which, via the gearbox, can transmit a high torque driving output, when needed and instantaneously, to the one roller to thereby enable the device to move across a surface and to manipulate and move a heavy load.